UPES
SCHOOL OF COMPUTER SCIENCE

MapMyUni

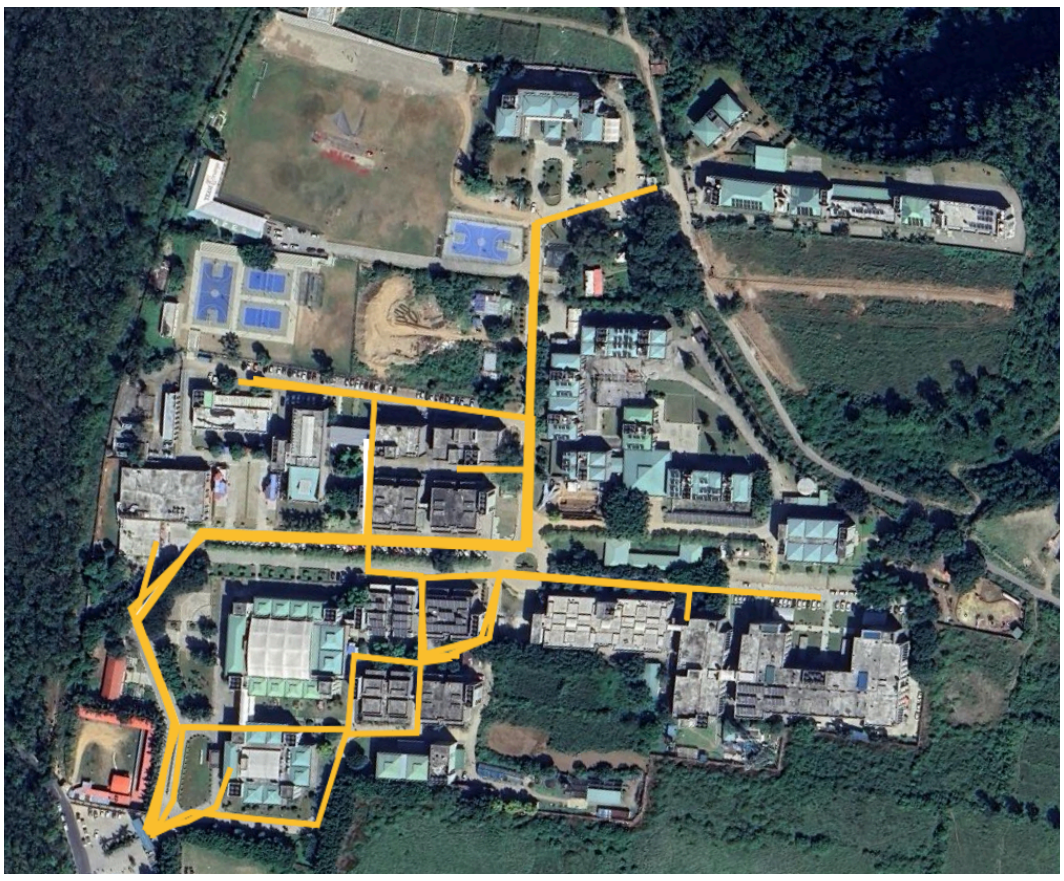
UPES
UNIVERSITY OF TOMORROW

Implementors:

Devanshi Narula - R2142221269
Mukul Shivhare - R2142221477
Daksh Batra - R2142220317
Anvita Gupta - R2142221432

Mentor:

Dr. Sonal Talreja



Abstarct

A campus navigation tool using Dijkstra's algorithm calculates shortest paths, optimizing routes for students, faculty, and visitors efficiently.

Problem Statement

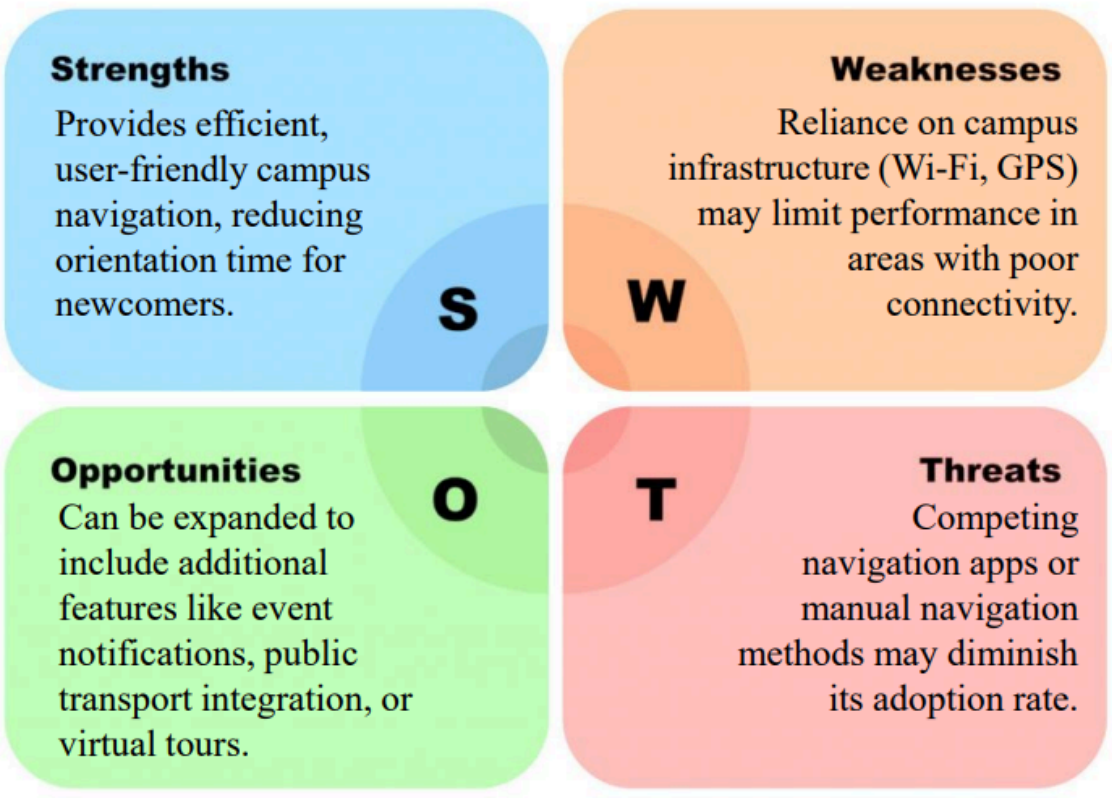
Efficient campus navigation is crucial, as newcomers often struggle with large layouts. A tool calculating shortest paths addresses this.

Areas of Application

- For navigation large university campuses
- For hospitals in big cities for calculating shortest distance during emergencies

MapMyUni

MapMyUni aids campus navigation, guiding newcomers to classrooms, libraries, and offices, saving time, reducing confusion, and enhancing exploration.



Methodology

Graph modeling using adjacency lists, Dijkstra's algorithm, priority queues for shortest paths, and user input-output for efficient navigation.

DATA STRUCTURES

Adjacency List
used for
graph representation

Priority Queue
used for
efficient node selection

Distance Table
used to store all the pathways from each location